

KTH, Department of Civil and Architectural Engineering

International Journals

2014

Navid Gohardani, *Architecture In Effect: A Glance at Critical Historiography*, International Journal of Architectural Research, 2014,8, 1, 184-190, March,

Guangli Du, Mohammed Safi, Lars Pettersson, Raid Karoumi, *Life cycle assessment as a decision support tool for bridge procurement: environmental impact comparison among five bridge designs*, The International Journal of Life Cycle Assessment, 2014,19, 12, 1948-1964, Dec.,

2013

Johan Spross and Stefan Larsson, *On the observational method for groundwater control in the Northern Link tunnel project*, Accepted for publication in Bulletin of the Engineering Geology and the Environment, 2013,

Mohammed Salim Al-Naqshabandy and Stefan Larsson, *Effect of uncertainties of improved soil shear strength on the reliability of embankments*, ASCE, Journal of Geotechnical and Geoenvironmental Engineering, 2013,139, 4, 619-632, april,

Niclas Bergman, Mohammed Al-Naqshabandy and Stefan Larsson, *Strength variability in lime-cement columns evaluated by CPT and KPS*, Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards, 2013,7, 1, 21-36,

Carl Wersäll and Stefan Larsson, *Small-Scale Testing of Frequency-Dependent Compaction of Sand using Vertically Vibrating Plate*, ASTM Geotechnical Testing Journal, 2013,36, 3, 1-10,

Niclas Bergman and Stefan Larsson, *Comparing column penetration and total-sounding data for lime-cement columns*, Proceedings of the ICE – Ground Improvement, 2013,Ahead of Print,

Navid Gohardani, Folke Björk, Per Anker Jensen, Esmir Maslesa, Stratis Kanarachos, and Paris A. Fokaidis, *Stakeholders and the Decision Making Process Concerning Sustainable Renovation and Refurbishment in Sweden, Denmark and Cyprus*, Architecture & Environment, 2013,1, 2, 21-28, September,

Rasmus Müller, Stefan Larsson and Johan Spross, *Extended multivariate approach for uncertainty reduction in the assessment of undrained shear strength in clays*, Canadian Geotechnical Journal, 2013,Published on the web, November,

Mohammed Safi, *Holistic Approach to Sustainable Bridge Procurement Considering LCC, LCA, Lifespan, User-Cost and Aesthetics: Case Study*, Journal of Bridge Engineering, 2013,

John Leander and Raid Karoumi, *Dynamics of thick bridge beams and its influence on fatigue life predictions*, Journal of Constructional Steel Research, 2013,89, 262-271, October,

John Leander, Mustafa Aygül and Bert Norlin, *Refined fatigue assessment of joints with welded in-plane attachments by LEFM*, International Journal of Fatigue, 2013,56, 25-32, November,

Rasmus Müller, Stefan Larsson and Bo Westerberg, *Stability of a high embankment founded on sulphide clay*, Proc. Inst. of Civ. Eng. Geotechnical Engineering, 2013,166, 1, 31-48, Available online: 09 February 2012,

Mari Westberg and Fredrik Johansson, *System Reliability of Concrete Dams with respect to foundation stability - application to a spillway*, ASCE Journal of Geotechnical and Geoenvironmental Engineering, 2013,139, 2, 308-319,

Niclas Bergman and Stefan Larsson, *Agreement between KPS and Jbt data evaluated from soil improved by lime cement columns*, Accepted for publication in Proceedings of the ICE – Ground Improvement, 2013,

2012

Thanh-Nam Le, Jean-Marc Battini, Mohammed Hjjaj, *Dynamics of 3D beam elements in a corotational context: a comparative study of established and new formulation*, Finite Element in Analysis and Design, 2012,61, 97-111,

- Mohammed Hjiij, Jean-Marc Battini and Quang Huy Nguyen, *Large displacement analysis of shear deformable composite beams with interlayer slips*, International Journal of Non-Linear Mechanics, 2012,47, 895-904,
- Stefan Larsson, Richard Malm, Benjamin Charbit and Anders Ansell, *Finite element modelling of laterally loaded lime-cement columns using a damage plasticity model*, Computers and Geotechnics, 2012,44, 48-57,
- Guangli Du and Raid Karoumi, *Life cycle assessment of Bridges: A literature survey and critical issues*, Structure and Infrastructure Engineering, 2012,10, 3, 277-294,
- Guangli Du and Raid Karoumi, *Life cycle assessment framework for railway bridges: literature survey and critical issues*, Structure and Infrastructure Engineering, 2012,
- Vincent Thiebault, Guangli Du and Raid Karoumi, *Design of railway bridges considering LCA*, Journal of ICE Bridge Engineering, 2012,
- Lamis Ahmed and Anders Ansell, *Structural dynamic and stress wave models for analysis of shotcrete on rock exposed to blasting*, Engineering Structures, 2012,35, 11-17,
- John Leander and Raid Karoumi, *Quality Assurance of Measured Response Intended for Fatigue Life Prediction*, Journal of Bridge Engineering, 2012,17, 4, 711-719, Juli,
- M. Safi, H. Sundquist, R. Karoumi and G. Racutanu, *Integration of Life-Cycle Cost Analysis with Bridge Management Systems: Case Study of Swedish Bridge and Tunnel Management System*, Transportation Research Record: Journal of the Transportation Research Board, 2012, Volume 2292 / 2012 Maintenance and Preservation 2012,
- M. Safi, H. Sundquist, R. Karoumi and G. Racutanu, *Development of the Swedish Bridge Management System by Upgrading and Expanding the use of LCC*, Journal of Structure and Infrastructure Engineering, 2012,
- B.K. Segerholm, S. Vellekoop and M.E.P. Wälinder, *Process-related mechanical degradation of the wood component in high-wood-content wood-plastic composites*, Wood and Fiber Science, 2012,44, 2, 1-10,
- B.K. Segerholm, R.E. Ibach and M.E.P. Wälinder, *Moisture sorption in artificially aged wood-plastic composites*, BioResources, 2012,7, 1, 1283-1293,
- Mohammed Salim Al-Naqshabandy, Niclas Bergman and Stefan Larsson, *Strength variability in lime-cement columns based on cone penetration test data*, Ground Improvement, 2012,165, 1, 15-30,
- Håkan Stille, Gunnar Gustafson and Lars Hässler, *Application of new theories and technology for grouting of dams and foundations on rock*, Geotechnical and Geological Engineering, 2012,30, 603-624,
- Guangli Du and Raid Karoumi, *Life cycle assessment of a railway bridge: comparison of two superstructure designs*, Journal of Structure and Infrastructure Engineering, 2012,
- Mohammed Safi, *Procurement of the most cost-efficient bridge through incorporating LCCA with BMSs: Case-Study of the Karlsnäs Bridge in Sweden*, Journal of Bridge Engineering, 2012,
- Rasmus Müller and Stefan Larsson, *Hydraulic conductivity and coefficient of consolidation of two sulphide clays in Sweden*, Geotechnical and Geological Engineering, 2012,30, 1, 173-186, Published online: 19 Oct 2011,
- Mehdi Bagheri and Håkan Stille, *A new analytical solution based on joint relaxation for analyzing symmetrical block stability*, International Journal for Numerical and Analytical Methods in Geomechanics, 2012,DOI: 20.1002/nag. 1119,
- Navid Gohardani and Folke Björk, *Sustainable refurbishment in building technology*, Smart and Sustainable Built Environment, 2012,ISBN 2046-6099,1, 3, 241-252,
- Johan Wiklund, Mashuqur Rahman and Ulf Håkansson, *In-line rheometry of micro cement based grouts . a promising new industrial application of the ultrasound based UVP PD method* , Applied Rheology, 2012,22, 4, 42783 (11 pages),
- 2011**
- Jean-Marc Battini and Mahir Ülker-Kaustell, *A simple finite element to consider the non-linear influence of the ballast on vibrations of railway bridges*, Engineering Structures, 2011,33, 2597-2602,
- Oskar Larsson and Raid Karoumi, *Modelling of climatic thermal actions in hollow concrete box cross-sections*, SEI-Structural Engineering International, 2011,21, 1, 74-79, Februari,

Almir Draganovic and Håkan Stille, *Filtration and penetrability of cement-based grout: study performed with a short slot*, Tunnel and Underground Space Technology, 2011,26, 4, 548-559,

Thanh-Nam Le, Jean-Marc Battini and Mohammed Hjjaj, *Efficient formulation for dynamics of corotational 2D beams*, Computational Mechanics, 2011,48, 153-161,

Rabe Alsafadie, Jean-Marc Battini and Mohammed Hjjaj, *Efficient local formulation for elasto-plastic corotational thin-walled beams*, Communications in Numerical Methods in Engineering, 2011,27, 498-509,

Navid Gohardani, *Architecture and Design Research: Reflections in relation to the design process*, International Journal of Architectural Research , 2011,5, 3, 107-115,

Joakim Wallin, John Leander and Raid Karoumi, *Strengthening of a steel railway bridge and its impact on the dynamic response to passing trains*, Engineering Structures, 2011,33, 2, 635-646, February,

Rabe Alsafadie, Mohammed Hjjaj and Jean-Marc Battini, *Three-dimensional formulation of a mixed corotational thin-walled beam element incorporating shear and warping deformations*, Thin-Walled Structures, 2011,49, 523-533,

Rabe Alsafadie, Jean-Marc Battini, Hugues Somja and Mohammed Hjjaj, *Local formulation for elasto-plastic corotational thin-walled beams based on higher-order curvature terms*, Finite Elements in Analysis and Design, 2011,47, 119-128,

Dvinskikh Sergey V, Furó István, Sandberg Dick and Söderström Ove, *Moisture content profiles and uptake kinetics in wood cladding materials evaluated by a portable nuclear magnetic resonance spectrometer*, Wood Material Science and Engineering, 2011,DOI: 10.1080/17480272.2010.543288,

Mehdi Bagheri and Håkan Stille, *Investigation of model uncertainty for block stability analysis*, International Journal for Numerical and Analytical Methods in Geomechanics, 2011,35, 7, 824-836,

Rabe Alsafadie, Jean-Marc Battini, Mohammed Hjjaj and Hugues Somja, *A comparative study of displacement and mixed-based corotational finite element formulations for elasto-plastic three-dimensional beam analysis*, Engineering Computations, 2011,28, 939-982,

T. Børvik, L. Olovsson, A.G Hanssen, K. Dharmasena, Håkan Hansson and H.N.G. Wadley , *A discrete particle approach to simulate the combined effect of blast and sand impact loading of steel plates*, Journal of the Mechanics and Physics of Solids, 2011,59, 5, 940-958, May,

Mohammed Safi, Hakan Sundquist and Raid Karoumi, *Life-Cycle Costing Integration with Bridge Management Systems*, Civil Engineering and Architecture, 2011,2(1): 11-23, 2014,

Müller,A., Kranzl,L., Tuominen,P., Boelman E., Molinari,M. and Entrop A.G., *Estimating exergy prices for energy carriers in heating systems: Country analyses of exergy substitution with capital expenditures*, Energy and Buildings, 2011,43, 12, 3609-3617,

Håkan Hansson and Richard Malm, *Non-linear Finite Element Analysis of Deep Penetration in Unreinforced and Reinforced Concrete*, Nordic Concrete Research, 2011,44, 87-107, December,

Richard Malm and Anders Ansell, *Cracking of a Concrete Buttress Dam Due to Seasonal Temperature Variation*, ACI Structural Journal, 2011,108, 1, 13-22, January - February,

2010

Pedro Alves Costa, Rui Calçada, António Silva Cardoso and Anders Bodare, *Influence of soil non-linearity on the dynamic response of high-speed railway tracks*, Soil Dynamics and Earthquake Engineering, 2010,30, 4, 221-235, april,

Johansson-Selander, A , Janz, M , Silfwerbrand, J , Trägårdh and J, *Penetration profiles of Water Repellent Agents in Concrete as a function of Time - Determined with FTIR-Spectrometer*, Int. journal Nordic Concrete Research, 2010,41, 1, 51-60,

Uetimane Junior, E., Allegratti, O., Terziev, N., Söderström and O., *Application of non-symmetrical drying tests for assessment of drying behaviour of ntholo (Pseudoachnostylos maprounaefolia PAX)* . , Holzforschung, 2010,64, 363-368,

Rabe Alsafadie, Mohammed Hjjaj and Jean-Marc Battini, *Corotational mixed finite element formulation for thin-walled beams with generic cross-section*, Computer methods in applied mechanics and engineering, 2010,199, 3197-3212,

Mahir Ülker-Kaustell, Raid Karoumi and Costin Pacoste, *Simplified analysis of the dynamic soil-structure*

interaction of a portal frame railway bridge, *Engineering Structures*, 2010,32, 3692-3698,

Håkan Stille and Mats Holmberg, *Examples of applications of observational method in tunnelling*, *Geomechanics and Tunneling*, 2010,3, 1, 77-82,

Esra Bayoglu Flener and Raid Karoumi, *Testing a soil-steel bridge under static and dynamic loads*, *ICE Bridge Engineering*, 2010,ISBN 1478-4637,Volume 163, Issue 1, 19-29, March,

Christoffer With, A.V.Metrikine and A. Bodare, *Identification of effective properties of the railway substructure in the low-frequency range using heavy oscillating unit on the track*, *Archive of Applied Mechanics*, 2010,80, 9, 959-968,

John Leander, Andreas Andersson and Raid Karoumi, *Monitoring and enhanced fatigue evaluation of a steel railway bridge*, *Engineering Structures*, 2010,32, 3, March,

Mahir Ülker-Kaustell and Raid Karoumi, *Application of the continuous wavelet transform on the free vibrations of a steel-concrete composite railway bridge*, *Engineering Structures*, 2010,33, 911-919,

Esra Bayoglu Flener, *Testing the response of box-type soil-steel structures under static service loads*, *ASCE Bridge Engineering*, 2010,Vol:15, Issue:1, pp. 90-97, January/February 2010,

Lamis Ahmed and Anders Ansell, *Direct shear strength of high strength concrete with fibres*, *Magazine of Concrete Research*, 2010,62, 379-390,

Richard Malm and Håkan Sundquist, *Time-dependent analyses of segmentally constructed balanced cantilever bridges*, *Engineering Structures*, 2010,32, 4, 1038-1045, April,

Butt, A.A., Jelagin, D., Tasdemir, Y., Birgisson and B., *The Effect of Wax Modification on the Performance of Mastic Asphalt*, *International Journal of Pavement Research and Technology*, 2010,3, 2, 86-95, March,

Rickard Gothäll and Håkan Stille, *Fracture-fracture interaction during grouting*, *Tunnelling and underground space technology*, 2010,ISBN 0886-7798,25, 3, 7, Maj,

Edwards, Y., Tasdemir, Y., Butt and A.A., *Energy saving and environmental friendly wax concept for polymer modified mastic asphalt*, *Materials and Structures*, 2010,ISBN 1359-5997 (Print) 1871-6873 (Online),April,

Anders Ansell, *Investigation of shrinkage cracking in shotcrete on tunnel drains*, *Tunnelling and Underground Space Technology*, 2010,25, 607-613,

Johan Magnusson, Anders Ansell and Håkan Hansson, *Air-blast-loaded, high-strength concrete beams. Part II: Numerical non-linear analysis*, *Magazine of Concrete Research*, 2010,62, 235-242,

Johan Magnusson, Mikael Hallgren and Anders Ansell, *Air-blast-loaded, high-strength concrete beams. Part I: Experimental investigation*, *Magazine of Concrete Research*, 2010,62, 127-136,

Bryne L.E., Lausmaa J., Ernstsson M., Englund F. and Wälinder M.E.P., *Ageing of modified wood. Part 2: Determination of surface composition of acetylated, furfurylated, and thermally modified wood by XPS and ToF-SIMS*, *Holzforschung*, 2010,64, 305-313,

Bryne L.E. and Wälinder M.E.P., *Ageing of modified wood. Part 1: Wetting properties of acetylated, furfurylated, and thermally modified wood*, *Holzforschung*, 2010,64, 295-304,

2009

Jean-Marc Battini, Quang-Huy Nguyen and Mohammed Hjjaj, *Non-linear finite element analysis of composite beams with interlayer slips*, *Computers and Structures*, 2009,87, 904-912,

Hans-Åke Mattsson and Hans Lind, *Experiences from Procurement of Integrated Bridge Maintenance in Sweden*, *European Journal of Transport and Infrastructure Research*, 2009,9, 2, 143-163,

Cristoffer With, Mehdi Bahrekazemi and Anders Bodare, *Wave barrier of lime-cement columns against train-induced ground-borne vibrations*, *Soil Dynamics and Earthquake Engineering*, 2009,29, 6, 1027-1033,

D. Hallberg, B. Stojanovic and J. Akander, *Status, Needs and Possibilities for Service Life Prediction and Estimation of District Heating Distribution Networks*, Accepted for publication in: *Journal Structure and Infrastructure Engineering - Maintenance, Management, Life-Cycle Design & Performance*, 2009,

Raid Karoumi, Knut Svedjetun and Staffan Gilliusson, *Monitoring Vertical Loads on the Bearings of the High Coast Suspension Bridge*, *Key Engineering Materials*, 2009,Vols. 413-414 (2009), 401-405,

- Annika Gram and Johan Silfwerbrand, *Numerical Simulation of Fresh SCC Flow - Applications*, Materials and Structures, 2009, Submitted to Materials and Structures, March 2009,
- Esra Bayoglu Flener and Raid Karoumi, *Dynamic testing of a soil-steel composite railway bridge*, Engineering Structures, 2009,31, 2803-2811, November,
- Esra Bayoglu Flener, *Evaluation of response of long-span, box type soil-steel composite structures to ultimate loading*, ASCE J. Bridge Engineering, 2009, Vol 14, Issue:6, pp. 496-506, November/December ,
- Christoffer With and Anders Bodare, *Evaluation of Track Stiffness with a Vibrator for Prediction of Train-Induced Displacement on Railway Embankments*, Soil Dynamics and Earthquake Engineering, 2009, Vol. 29, No. 8, pp 1187-1197,
- Rikard Gothäll and Håkan Stille, *Fracture Dilatation during Grouting*, Tunnelling and Underground Space Technology, 2009, Vol. 24, No. 2, pp 126-135, March, 2009,
- Stefan Larsson, Mirja Rothhämel and Gunnar Jacks, *A laboratory study on strength loss in kaolin surrounding lime-cement columns*, Applied Clay Science, 2009,44, 1-2, 116-126,
- Tomas Vrana and Folke Björk, *Frost formation and condensation in stone-wool insulants*, Construction and building materials, 2009,23, 5, 1775-1787, May 2009,
- Lisa Hernqvist, Åsa Fransson, Gunnar Gustafson, Ann Emmelin, Magnus Eriksson and Håkan Stille, *Analyses of the grouting results for a section of the APSE tunnel at Äspö Hard Rock Laboratory* , International Journal of Rock Mechanics and Mining Sciences, 2009,46, 3, 439-449,
- Christer Andersson and Derek Martin, *The Äspö pillar stability experiment: Part I—Experiment design* , International Journal of Rock Mechanics and Mining Sciences, 2009,46, 5, 865-878 ,
- B. Stojanovic and J. Akander, *Build-Up and Long-Term Performance Test of a Full-Scale Solar-Assisted Heat Pump System for Residential Heating in Nordic Climatic Conditions*, Submitted to the journal Applied Thermal Engineering, 2009,
- Björn Stille, Håkan Stille, Gunnar Gustafson and Shinji Kobayashi, *Experience with the real time grouting control method*, Geomechanics and Tunnelling, 2009,2, 5, 447-459,
- Folke Björk and Tomas Enochsson, *Properties of thermal insulation materials during extreme environment changes* , Construction and Building Materials, 2009,23, 2189-2195,
- Christer Andersson, Derek Martin and Håkan Stille, *The Äspö Pillar Stability Experiment: Part II—Rock mass response to coupled excavation-induced and thermal-induced stresses*, International Journal of Rock Mechanics and Mining Sciences, 2009,46, 5, 879-895 ,
- Tomas Vrana and Kjartan Gudmundsson, *Stone-wool insulation under influence of massive condensation and ice formation and their impact on moisture properties*, Construction and Building Materials, 2009, Submitted March 2009,
- Marcin Koniorczyk, Kjartan Gudmundsson and Gudni Johannesson, *Sampling and Analysis of Natural Isotopes in Moisture Transport from Porous Materials: Applications to Capillary Suction*, Journal of Building Physics, 2009,33, 1, 83 - 96, July,
- Tomás Vrána and Kjartan Gudmundsson, *Comparison of fibrous insulations - cellulose and stone wool in terms of moisture properties resulting from condensation and ice formation*, Construction and Building Materials, 2009, CONBUILDMAT-D09-00723,
- Marcin Koniorczyk, Kjartan Gudmundsson and Gudni Johannesson, *Sampling and Analysis of Natural Isotopes in Moisture Transport from Porous Materials: Applications to Capillary Suction*, Journal of Building Physics, 2009,33, 1, 83 - 96, July,
- Ulf Olofsson, Lars Olander and Anders Jansson, *A Study of Airborne Wear Particles Generated From a Sliding Contact*, Journal of Tribology, 2009,131, 4,
- Ulf Olofsson, Lars Olander and Anders Jansson, *Towards a model for the number of airborne particles generated from a sliding contact*, Wear, 2009,267, 2252-2256,
- Jon Sundh, Ulf Olofsson, Lars Olander and Anders Jansson, *Wear rate testing in relation to airborne particles generated in a wheel-rail contact*, Lubrication Science, 2009,21, 4, 135-150, April,
- Åsa Westberg, Dane Momcilovic, Folke Björk and Sigbritt Karlsson, *Quality assessment of building products by the micro-scale headspace vial*, Polymer Degradation and Stability, 2009,94, 914-920, Mars 2009,

Johan Wiberg, Raid Karoumi and Costin Pacoste, *Statistical screening of individual and joint effect of several modelling factors on the dynamic FE response of a railway bridge*, Submitted to Journal of Sound and Vibration, 2009,

Johan Wiberg, *An equivalent modulus of elasticity approach for simplified modelling and analysis of a complex prestressed railway bridge*, Submitted to Advances in Structural Engineering, 2009,

Liljencrantz Axel and Karoumi Raid, *Twim - A MATLAB toolbox for real-time evaluation and monitoring of traffic loads on railway bridges.*, Structure and Infrastructure Engineering, Taylor & Francis, 2009,5, 5, 407 - 417, October,

Johan Wiberg and Raid Karoumi, *Monitoring dynamic behaviour of a long-span railway bridge*, Structure and Infrastructure Engineering, 2009,5, 5, 419-433,

Ylva Edwards, *Influence of waxes on bitumen and asphalt concrete mixture performance*, Road Materials and Pavement Design, 2009, Vol. 10, No. 2, 313-335, April-June,

Johan Wiberg, Raid Karoumi and Costin Pacoste, *Optimized model updating of a railway bridge for increased accuracy in moving load simulations*, To be submitted to Journal of Bridge Engineering, 2009,

D. Hallberg and V. Tarandi, *On the use of 4D BIM in LMS for construction works*, Accepted for publication in: Journal of Information Technology in Construction (Itcon), 2009,

M.E.P. Wålinder, A. Omidvar, J. Seltman and B.K. Segerholm, *Micromorphological studies of modified wood using a surface preparation technique based on ultraviolet laser ablation*, Journal of Wood Material Science and Engineering, 2009,4, 1 & 2, 46-51,

Finn Englund, Lars Elof Bryne, Marie Ernstsson, Jukka Lausmaa and Magnus Wålinder, *Spectroscopic studies of surface chemical composition and wettability of modified wood*, Journal of Wood Material Science and Engineering, 2009,4, 1 & 2, 80-85,

2008

Jelagin, D. and Larsson PL., *On Indentation and Initiation of Fracture in Glass*, International Journal of Solids and Structures, 2008,45, 10, 2993-3008,

Jonas Ekblad and Ylva Edwards, *Precision of method for determining resistance of bituminous mixtures to de-icing fluids*, Materials and Structures, 2008, Vol. 41, No. 9, p. 1551-1562,

Santagata, F.A., Partl, M. N., Ferrotti, G., Canestrari, F., Flisch and A., *Layer Characteristics Affecting Interlayer Shear resistance in Flexible Pavements*, Journal of the AAPT, 2008,77, 221-254,

Myren J.A. and Holmberg S., *Flow patterns and thermal comfort in a room with panel, floor and wall heating*, Energy and Buildings, 2008,40, 524-536,

Kim, S., Guarin, A., Rouque, R., Birgisson and B., *Laboratory Evaluation of Rutting Performance Based on DASR Porosity of Asphalt Mixtures*, International Journal of Road Materials and Pavement Design, 2008, to be published,

Myren J.A. and Holmberg S., *Design considerations with ventilation-radiators: Comparisons to traditional two-panel radiators*, Energy and Buildings, 2008, online version 2008,

Ehsani, A.H., Quiel and F., *Geomorphometric feature analysis using morphometric parameterization and artificial neural networks*, Geomorphology, 2008,99, 1-4, 1-12., This paper is selected as "Top 25 Hottest Articles" on July -September 2008 by ScienceDirect,

Ehsani, A.H., Quiel and F., *Artificial Neural Networks for Landscape Analysis of the Biosphere Reserve Eastern Carpathians with Landsat ETM+ and SRTM data*, The Problems of Landscape Ecology, 2008,20, 171-183,

Jonas Ekblad and Ulf Isacsson, *Influence of water and mica content on resilient properties of coarse granular materials*, International Journal of Pavement Engineering, 2008,9, Issue 3, 215--227,

Poulikakos, L. D., Arraigada, M., Morgan, G.C.J., Heutschi, K., Anderegg, P., Partl, M. N. and Soltic., *In Situ Measurements of the Environmental Footprint of Freight Vehicles in Switzerland*, J. Transportation Research Part D: Transport and Environment, 2008,13, 274...282,

Jelagin, D and Larsson P., *Hertzian Fracture at Finite Friction; a Parametric Study*, Wear, 2008,265, 5-6, 840-848,

- Richard Malm and Jonas Holmgren, *Cracking in deep beams owing to shear loading. Part 1: Experimental study and assessment*, Magazine of Concrete Research, 2008,60, (5), 371--379,
- Tomas Vrana and Folke Björk, *A laboratory equipment for the study of moisture processes in thermal insulation materials when placed in a temperature field*, Construction and building materials, 2008,22, 12, 2335-2344, December 2008,
- Hans-Åke Mattsson, Håkan Sundquist and Torbjörn Stenbeck, *Bridge demolition and construction rates: inspection data-based indicators*, Bridge Structures, 2008,4, Issue 1, 33--47, March,
- Hosseini, Hamid Reza AmiriHosseini, A. K Darban and F.Fakhri, *The Effect of Geosynthetic Reinforcement On*, SCIENTIA IRANICA,(International Journal Of, 2008,16, 1, 26-33,
- Ehsani, A.H., Quiel and F., *Application of Self Organizing Maps and SRTM data to Characterize Yardangs in the Lut Desert, Iran*, Remote Sensing of Environment, 2008,112, 7, 3284-3294,
- Morgan, G.C.J., Poulidakos, L.D., Arraigada, G., Muff, R., Partl and M.N., *In Situ Monitoring of Pavement Stresses on the A1 in Switzerland*, ASTM Journal of Testing and Evaluation, 2008,36, 4, 291-299,
- Richard Malm and Jonas Holmgren, *Cracking in deep beams owing to shear loading. Part 2: Non-linear analysis*, Magazine of Concrete Research, 2008,60, (5), 381--388,
- Anders Ansell and Richard Malm, *Modelling of Thermally Induced Cracking of a Concrete Buttress Dam*, Nordic Concrete Research, 2008,38, 2/2008, 69--88,
- Tord af Klintberg, Gudni Jóhannesson and Folke Björk, *Air gaps in building construction avoiding dampness and mould*, Structural Survey, 2008, 26, 3, , 242-255,
- Kim, J., Roque, R., Birgisson and B., *Integration of Thermal Fracture in the HMA Model*, Journal of Asphalt Paving Technologists, 2008,77,
- Jonas Ekblad, *Statistical evaluation of resilient models characterizing coarse granular materials*, Materials and Structures, 2008,41, Issue 3, 509--525,
- Tord af klintberg and Folke Björk, *Air Gap Method: measurements of air flow inside air gaps of walls*, structural Survey, 2008,26, 4, , 343-363,
- Ljungqvist, B., Reinmüller and B, *Monitoring efficiency of microbiological impaction air samplers*, European Journal of Perenteral & Pharmaceutical Sciences, 2008,ISBN ISSN 0964-4679,13, 4, 93-97,
- Poulidakos, L.D., Morgan, G., Muff, R., Partl, M.N., Doupal, E., Calderara and R., *Interpretation of Accelerated Laboratory Testing of the Prototype Modulus Stress in Motion (SIM) Sensor with the MMLS3 Load Simulator*, ASCE - Journal of Transportation Engineering, 2008,134, 10, 414-422,
- Jonas Ekblad and Ulf Isacson, *Influence of Mica Content on Time Domain Reflectometry and Soil Water Characteristic Curve of Coarse Granular Materials*, Geotechnical Testing Journal, 2008,31, 2, 321--333,
- Partl, M.N., Canestrari, F., Grilli, A., Gubler and R., *Characterization of Water Sensitivity of Asphalt Mixtures with Coaxial Shear Test*, International Journal of Road Materials and Pavement Design, 2008,36, 4, 247-278,
- Kim, S., Roque, R., Birgisson, B. and Guarin, *Porosity of the Dominant Aggregate Size Range (DASR) to Evaluate Coarse Aggregate Structure of Asphalt Mixtures*, ASCE Journal of Construction Materials, 2008,to appear,
- Guha J. and Holmberg S, *A Numerical and Experimental Evaluation of a Natural Wind Driven Suction Cylinder for Building Ventilation*, International Journal of Ventilation, 2008,7, 3, December, paper 2,
- Westerholm, M., Lagerblad, B., Silfwerbrand, J., Forssberg and E., *Influence of fine aggregate characteristics on the rheological properties of mortars*, Cement & Concrete Composites, 2008,30, 274-282,
- Jean-Marc Battini, *A rotation-free corotational plane beam element for non-linear analyses*, International Journal for Numerical Methods in Engineering , 2008,75, 672-689,
- Raab, C., Partl and M.N., *Investigation on Long-Term Interlayer Bonding of Asphalt Pavements*, The Baltic Journal of Road and Bridge Engineering, 2008,3, 2, 65-70,
- Jean-Marc Battini, *A non-linear corotational 4-node plane element*, Mechanics Research Communications, 2008,35, 408-413,

Esra Bayoglu Flener , *Soil-steel interaction of long-span box culverts - Performance during backfilling.*, ASCE Journal of Geotechnical and Geo-environmental Engineering, 2008, Accepted for publication in ASCE Journal of Geotechnical and Geo-environmental Engineering oct 2008,

Arraigada, M., Partl, M.N., Angelone, S.M., Martinez and F., *Evaluation of Accelerometers to Determine Pavement Deflections under Traffic Loads*, Materials and Structures, 2008, Electr Version Published DOI 10.1617/s11527-008-9423-5,

Skoglund, P., Silfwerbrand, J., Holmgren, J., & Trägårdh and J., *Chloride Redistribution and Reinforcement Corrosion in the Interfacial Region between Substrate and Repair Concrete – A Laboratory Study*, Materials & Structures, 2008, 41, 6, 1001-1014, July,

Stenbeck and T., *Quantifying Effects of Incentives in a Rail Maintenance Performance-Based Contract*, Journal of Construction Engineering and Management, 2008, 134, 4, 265-272,

Johansson, A., Janz, M., Silfwerbrand, J., & Trägårdh and J., *Long Term Performance of Water Repellent Treatment-Water Absorption Tests of Field Objects in Stockholm*, Restoration of Buildings and Monuments, 2008, 14, 1, 39-47,

B. Stojanovic, J. Akander and B. Eriksson, *Natural and Semi-Natural Field Exposure Testing and Analysis, on Optical Degradation of a Building Integrated Unglazed Solar Collector Surface*, Materials and Structures, 2008, 41, 1057-1071,

B. Stojanovic, D. Hallberg and J. Akander, *A Steady State Thermal Duct Model Derived by Fin-Theory Approach and Applied on an Unglazed Solar Collector*, Submitted to the journal Solar Energy, 2008,

Jean-Marc Battini, *Large rotations and nodal moments in corotational elements*, CMES Computer Modeling in Engineering & Sciences, 2008, 33, 1-15, Invited paper ,

Sven-Olof Lundkvist and Ulf Isacsson, *Condition Assessment of Road Equipment - State of the Art*, The Baltic Journal of Road and Bridge Engineering, 2008, 3, 2, 84--92,

Bing Tang and Ulf Isacsson, *Analysis of mono- and polycyclic aromatic hydrocarbons using solid-phase microextraction - state-of-the-art*, Energy & Fuels, 2008, 22, 1425--1438,

C Lucian, S Hintze and H Stille, *Spatial Variability of Expansive Soil Properties at Different Scales within Kibaha (Tanzania)*, Tanzania Journal of Engineering and Technology (TJET), 2008, Vol. 1, No. 3, pp 92-97,

Daniel Eklund and Håkan Stille, *Penetrability due to Filtration Tendency of Cement-Based Grouts*, Tunnelling and Underground Space Technology, 2008, Vol. 23, No. 4, pp 389-398,

Håkan Stille and Arild Palmström, *Ground Behaviour and Rock Mass Composition in Underground Excavations*, Tunnelling and Underground Space Technology, 2008, Vol. 23, No. 1, pp 46-64,

Timo Kalema, Gudni Johannesson, Petri Pylysy and Per Hagengran, *Accuracy of Energy Analysis of Buildings: A Comparison of a Monthly Energy Balance Method and Simulation Methods in Calculating the Energy Consumption och the Effect of Thermal Mass*, Journal of Building Physics, 2008, 32, 2, 101-130, October,

J. Adler, F Bergholm, S N Pagakis and I Parmryd, *Noise and Colocalization in Fluorescence Microscopy, solving a Problem*, Microscopy and Analysis, 2008, 22, 5, 7--10,

Adler J, Bergholm F, Pagakis S and Parmryd I, *Noise and colocalisation in fluorescence microscopy: solving a problem*, Microscopy and Analysis, 2008, 22, 5, 7-10, sept,

2007

Partl M.N., Flisch A. and Jönsson M., *Comparison of Laboratory Compaction Methods Using X-ray Computer Tomography*, Road Materials and Pavement Design, 2007, 8, 2, 139-164,

Arild Palmström and Håkan Stille, *Ground behaviour and rock engineering tools for underground excavations*, Tunnelling and Underground Space Technology, 2007, 22, 4, 363-373, July,

L Malmgren, D Saiang, J Töyrä and A Bodare, *The excavation disturbed (EDZ) at Kiirunavaara mine, Sweden, - by seismic measurements.*, Journal of Applied Geophysics, 2007, 61, 1-15,

Ljungqvist B. and Reinmüller B., *Loading and Unloading of Freeze-Dryers: Airborne Contamination Risks for Aseptically Manufactured Sterile Drug Products*, PDA Journal of Pharmaceutical Science and Technology, 2007, 61, 1, 44 - 50,

Sundström S., Ljungqvist B. and Reinmüller B., *Some Observations on Airborne Particles in Blow-Fill-Seal*

Filling Rooms, PDA Journal of Pharmaceutical Science and Technology,, 2007,61, 3, 147 - 153,

Tasdemir, Y., Agar and E., *Investigation of the low temperature performances of polymer and fiber modified asphalt mixtures*, Indian Journal of Engineering & Materials Sciences, 2007,14, 151-157,

Knut Kjellsen and Björn Lagerblad, *Microstructure of tricalcium silicate and Portland cement system at middle periods of hydration-development of Hadley grains*, Cement and Concrete Research, 2007,37, pp 13-21,

Birgisson, B., Montepara, A., Romeo, E., Roque, R., E., Roncella, Tedbaldi and G., *Determination of Fundamental Tensile Failure Limits of Mixtures*, Journal of the Association of Asphalt Paving Technologists, 2007,71, 303-344,

Ylva Edwards, Yuksel Tasdemir and Ulf Isacsson, *Rheological effects of commercial waxes and polyphosphoric acid in bitumen 160/220 - High and medium temperature performance*, Construction and Building Materials, 2007,

Christoffer With and Anders Bodare, *Prediction of train-induced vibrations inside buildings using transfer functions*, Soil Dynamics and Earthquake Engineering, 2007,27, 93-98,

Rober Karlsson, Ulf Isacsson and Jonas Ekblad, *Rheological characterisation of bitumen diffusion*, Journal of Materials Science, 2007,42, 1, 101-108, January,

Lundström, R., Ekblad, J., Isacsson, U., Karlsson and R., *Fatigue modeling as related to pavement design: State of the art*, Road Materials and Pavement Design,, 2007,8, 2, 165-205,

Valtorta, D., Poulikakos, L. D., Connery, E., Partl, M. N., Mazza and E., *Accelerated Aging of Bituminous Binders Using a High Frequency Torsional Rheometer*, Advanced Engineering Materials, 2007,9, 1-2, 121-128,

Valtorta, D., Poulikakos L. D., Partl, M. N., Mazza and E., *Rheological Properties of Polymer Modified Bitumen from Long-term Field Tests*, Fuel 86, 2007,pp938-948,

Arraigada, M., Partl, M. N., Angelone and S. M., *Determination of Road Deflections from Traffic Induced Accelerations*, Int. J. of Road Materials and Pav.Design, 2007,8, 3, 399-421,

Poulikakos, L., Takahashi, S., Partl and M.N., *Coaxial Shear Test and Wheel Tracking Tests for Determining Porous Asphalt Mechanical Properties*, Int.I J. of Road Materials and Pav. Design, 2007,8, 3, 579-594,

Thorsell T., Tenpierik J. and Cauberg J. M., *Vacuum Insulation Panels in Building Constructions: an Integral Perspective.*, Journal of Construction Innovation, , 2007,7, 38-53,

Axel Liljencrantz, Raid Karoumi and Pär Olofsson, *Implementing bridge weigh-in-motion for railway traffic*, Computers and Structures,, 2007,85, 1-2, 80-88,

G Nord, M Bagheri, A Baghbanan and H Stille, *Design consideration of large caverns by using advanced drilling equipment*, Felsbau, 2007,5,

Wang, J. , Birgisson and B., *A Time domain boundary element method for modeling the viscoelastic behavior of asphalt pavements*, Journal of Engineering Analysis with Boundary Elements, 2007,31, 3, 226-240, March,

Wang, J., Birgisson, B., Roque and R., *Development of a Windows-Based Top-Down Cracking Design Tool for Florida Based on the Energy Ratio Concept*, Transprotation Research Record, 2007,TRR 2037, 86 - 96,

Anders Ansell, *Shotcrete on rock exposed to large scale blasting*, Magazine of Concrete Research, 2007,59, 9, 663-671, November,

Anders Ansell, *The dynamic shear capacity of concrete structures*, Structural Concrete, 2007,8, 3, 147-154, September,

Erlingsson and Sigurdur, *On Forecasting the Resilient Modulus from the CBR value of Granular Bases*, International Journal of Road Materials and Pavement Design, 2007,8, 4, 783 - 797,

Annika Gram and Johan Silfwerbrand , *Computer Simulation of SCC Flow*, BFT International, 2007,Vol. 73, 08, 40-48,

Jean-Marc Battini, *A modified corotational framework for triangular shell elements*, Computer Methods in Applied Mechanics and Engineering, 2007,196, 1905-1914,

Birgisson, B., Roque, R., Page, G.C., Wang and J., *The Development of a New Moisture Conditioning*

- Procedure for Hot Mix Asphalt*, Journal of Transportation Research Board, 2007, TRR 2001, 46-55,
- D. Hallberg and G. Racutanu, *Development of the Swedish Bridge Management System by introducing an LMS concept*, Journal of Materials and Structures, 2007, 40, 6, 627-639,
- Hassan OAB, *Experimental investigations on the force mobility of an elastic stratum on a rigid base*, ACTA ACUSTICA UNITED WITH ACUSTICA, 2007, Vol. 93, Issue: 1, 164--166,
- Hans-Åke Mattsson, Håkan Sundquist and Johan Silfwerbrand, *The real service life and repair costs for bridge edge beams*, International Journal for Restoration of Building and Monuments, 2007, 13, 4, 215-228,
- Johan Magnusson, *Fibre reinforced concrete beams subjected to air blast loading*, Nordic Concrete Research, 2007, 35, 18-34,
- Ekblad, J., Isacsson and U., *Time-domain reflectometry measurements and soil-water characteristic curves of coarse granular materials used in road pavements*, Canadian Geotechnical Journal, 2007, 44, 7, 858-872, doi:10.1139/T07-024,
- Sven Sahlin, *Fisher's tests on chasing revisited. The effect of chasing on the compressive strength of brickwork (3.IBMAC, Essen 1973)*, Masonry International, 2007, 20, 2, 1-6,
- Johansson, A, Janz, M, Silfwerbrand, J, Trägårdh and J, *Penetration Depth for Water Repellent Agents on Concrete as a Function of Humidity, Porosity and Time*, International Journal on Restoration of Buildings and Monuments, 2007, 13, 1, 3-16,
- Carl Erik Broms, *Flat Plates in Seismic Areas: Comparison of Shear Reinforcement Systems*, ACI Structural Journal, 2007, Vol. 104, No. 6, pp. 712-721, Nov. Dec.,
- Carl Erik Broms, *Ductility of Flat Plates: Comparison of Shear Reinforcement Systems*, ACI Structural Journal, 2007, Vol. 104, No 6, pp. 703-711, November-December,
- Erlingsson and Sigurdur, *Numerical Modeling of Thin Pavements Behavior in Accelerated HVS Tests*, International Journal of Road Materials and Pavement Design, 2007, 8, 4, 719 - 744,
- Wang, J., Birgisson and B., *A Time domain boundary element method for modeling the viscoelastic behavior of asphalt pavements*, Journal of Engineering Analysis with Boundary Elements, 2007, 31, 3, 226-240, March,
- Hans-Åke Mattsson and Håkan Sundquist, *The real service life of road bridges*, ICE Bridge Engineering, 2007, Vol. 160, Issue BE4, 173-179, December,
- Hans-Erik Gram, Björn Lagerblad and Mikael Westerholm, *The challenge to replace natural sands in Swedish concretes*, Aggregate International, 2007, 24-30, 68-74, September/October,
- Birgisson, B., Montepara, A., Romeo, E., Roncella, R., Napier, J.A.L., Tebaldi and G., *Determination and Prediction of Crack Patterns in Hot Mix Asphalt (HMA) Mixtures*, International Journal of Engineering Fracture Mechanics, 2007, 75, 664-673,
- Anders Ansell, *Dynamic finite element analysis of young shotcrete in rock tunnels*, ACI Structural Journal, 2007, 104, 1, 84-92, Jan-Feb,
- Lundkvist, S.-O., Isacsson and U., *Prediction of Road Marking Performance*, ASCE Journal of Transportation Engineering, 2007, 133, 6, 341-346, June,
- Birgisson, B., Wang, J., Roque and R., *A new algorithm for determination of crack growth path in HMA materials*, Journal of Road Materials and Pavement Design, 2007, 8, 1, 47-60,
- Charles Lucian, Staffan Hintze and Håkan Stille, *A geotechnical characteristics of swell-shrink soils in Kibaha, Tanzania.*, Global Journal of Engineering Research, 2007, Vol. 6, No. 1, 25--30,
- Sven-Olof Lundkvist and Ulf Isacsson, *Prediction of road marking performance*, Journal of Transportation Engineering, 2007, Vol. 133, 6/2007, 341--346,
- Umaru Bagampadde and Robert Karlsson, *Laboratory studies on stripping at bitumen/substrate interfaces using FTIR-ATR*, Materials Science, 2007, Vol. 42, 9,
- B. Kristoffer Segerholm, Pernilla Walkenström, Birgitha Nyström, Magnus E. P. Wålinder and Pia Larsson Brellid, *Micromorphology, moisture sorption and mechanical properties of a biocomposite based on acetylated wood particles and cellulose ester*, Wood Material Science and Engineering, 2007, Vol. 2, Issue 3 & 4, 106--117,

Birgisson, B., Montepara, A., Romeo, E., Rouque, R.E., Roncella, Tebaldi and G., *An Optical Strain Measurement System for Asphalt Mixtures*, International Journal of Structures and Materials, RILEM, 2007, to be published,

Pål Skoglund, Johan Silfwerbrand, Jan Trägårdh and Jonas Holmgren, *Chloride Transport and Corrosion near the Transition Zone between Substrate and Repair Concrete - Field Study*, Restoration of Buildings and Monuments, 2007,13, 1, 25-38,

Birgisson, B., Sangpetgnam, B., Roque, R., Wang and J., *Numerical Implementation of a strain energy-based fracture model for a HMA materials*, International Journal of Road Materials and Pavement Design, 2007,8, 1, 7 - 45,

2006

Birgisson, B., Sangpetgnam, B., Roque, R., Wang and J., *A viscoelastic displacement discontinuity method for analysis of pavements with cracks*, International Journal of Road Materials and Pavement Design, 2006,7, 4, 417-455,

Mikael Westerholm, Björn Lagerblad and Erik Forsberg, *Washing of fine aggregates - Influence of Aggregate Properties and Mortar Rheology*, Nordic Concrete Research, 2006,1-2, 35-36,

Kim, J., Roque, R., Birgisson and B., *Interpreting Dissipated Energy from Complex Modulus Data*, International Journal of Road Materials and Pavement Design, 2006,7, 2, 223-245,

Seyed Kazem Alavi Panah, Amir Houshang Ehsani, Hamid Reza Matinfar, Ammar Rafiei Emam and Reza Amiri, *Comparison of information contents of ETM+ and TM satellite data in the Arid and Urban area of Iran*, Iranian journal of Geographical Research, 2006,56, 2, 47-67,

Elaguine (Jelagin), D., Brudieu, M., Storåkers and B., *Hertzian Fracture at Unloading*, Journal of the Mechanics and Physics of Solids, 2006,54, 2453 - 2473,

Stéphane Hameury and Magdalena Sterley, *Magnetic resonance imaging of moisture distribution in Pinus sylvestris L. exposed to daily indoor relative humidity fluctuations.*, Wood Material Science and Engineering, 2006,1, 3-4, 116-126,

Wang, J., Birgisson, B., Roque and R., *Effects of Viscoelastic Stress Redistribution on the Cracking Performance of Asphalt Pavements*, Journal of Asphalt Paving Technologists, 2006,75, 637-676,

Kim, S., Roque, R., Birgisson and B., *Identification and Assessment of the Dominant Aggregate Size Range (DASR) of Asphalt Mixture*, Journal of Asphalt Paving Technologists, 2006,75, 789-814,

Jean-Marc Battini and Costin Pacoste, *On the choice of the linear element for corotational triangular shells*, Computer Methods in Applied Mechanics and Engineering, 2006,195, 44-47, 6362-6377, September ,

Bing Tang and Ulf Isacson, *Determination of aromatic hydrocarbons in bituminous emulsion sealants using headspace solid-phase microextraction and gas chromatography-mass spectrometry*, Journal of Chromatography A, 2006,1137, 1, 15-21,

Bing Tang, Ulf Isacson and Ylva Edwards, *Chemical Characterization and Screening of Emission Profiles of Bituminous Sealants Using Solid-Phase Microextraction*, Energy & Fuels, 2006,20, 4, 1528-1535,

Bing Tang and Ulf Isacson, *Chemical characterization of oil-based asphalt release agents and their emissions*, Fuel, 2006,85, 9, 1232-1241,

Ylva Edwards, Ulf Isacson and Yuksel Tasdemir, *Influence of commercial waxes and polyphosphoric acid on bitumen and asphalt concrete performance at low and medium temperatures*, Materials and Structures, 2006,39, 1, 725-737,

Hassan OAB, *Force mobility of an elastic stratum over a rigid base. Part I: Approximate solution*, ACTA ACUSTICA UNITED WITH ACUSTICA, 2006, Vol. 92, Issue: 3, 378--389,

J. Ekblad and U. Isacson, *Influence of water on resilient properties of coarse granular materials*, Road Materials and Pavement Design, 2006,7, 3, 369-404,

Umaru Bagampadde and Ulf Isacson, *Characterization of chemical reactivity of liquid anti-stripping additives using potentiometric titration and FTIR spectroscopy*, Energy & Fuels, 2006,20, 2174 - 2180,

Eugene O'Brien, Michael Quilligan and Raid Karoumi, *Calculating an Influence Line from Direct Measurements*, J. Bridge Eng., Proc. Inst. Civil Eng., 2006,159, 1, 31-34, March,

Hassan OAB, *Force mobility of an elastic stratum over a rigid base. Part II: Exact solution*, ACTA ACUSTICA UNITED WITH ACUSTICA, 2006, Vol. 92, Issue: 3, 390--397,

Anders Ansell, *Dynamic testing of steel for a new type of energy absorbing rock bolt*, Journal of Constructional Steel Research, 2006, 62, 5, 501-512, May,

Ylva Edwards, Ulf Isacson and Y. Tasdemir, *Rheological effects of commercial waxes and polyphosphoric acid in bitumen 160/220 - Low temperature performance*, Fuel, 2006, 85, 7-8, 989-997,

Umaru Bagampadde, Ulf Isacson and B. M. Kiggundu, *Impact of bitumen and aggregate composition on stripping in bituminous mixtures*, Materials and Structures, 2006,

Carl Erik Broms, *Ductility reinforcement for flat slabs in seismic areas*, Magazine of Concrete Research, 2006, 58, 4, 243 - 254, May,

Robert Karlsson and Ulf Isacson, *Material-Related Aspects of Asphalt Recycling - State-of-the-Art*, JOURNAL OF MATERIALS IN CIVIL ENGINEERING, ASCE, 2006, 18, 1,

Richard Malm and Andreas Andersson, *Field testing and simulation of dynamic properties of a tied arch railway bridge*, Engineering Structures, 2006, 28, 1, 143-152, January,

Ylva Edwards, Ulf Isacson and Yuksel Tasdemir, *Effects of commercial waxes on asphalt concrete performance at low and medium temperatures*, Cold Regions Science and Technology, 2006, 45, 1, 31-41,

Mikael Westerholm, Björn Lagerblad and Erik Forssberg, *Rheological properties of micromortars containing fines from manufactured aggregates*, Materials and Structures, 2006, 40, 6, 615-625, July,

Torsten Höglund and Lars Nilsson, *Aluminium in Bridge Decks and a New Military bridge in Sweden*, Journal of Int. Ass. for Bridge and Structural Engineering (IABSE) Structural Engineering International, 2006, 16, 4,

Torsten Höglund and Bert Norlin, *Static Design of Aluminium Structures*, Journal of Int. Ass. for Bridge and Structural Engineering (IABSE) Structural Engineering International, 2006, 16, 4,

D. Sandberg and Ove Söderström, *Crack formation due to weathering of radial and tangential sections of pine and spruce*, Wood Material Science and Engineering, 2006, 1, 12-20,

Semere Solomon and Friedrich Quiel, *Groundwater study using remote sensing and geographic information systems (GIS) in the central highlands of Eritrea*, Hydrogeology Journal, 2006, 14, 1029-1041,

Thomas Thorsell, *A hybrid model for diffusion through barrier films with multiple coatings*, Nordic Journal of Buildings Physics, 2006, Submitted September 2006,

Christoffer With, Mehdi Bahrekazemi and Anders Bodare, *Validation of an empirical model for prediction of train-induced ground vibrations.*, Soil Dynamics and Earthquake Engineering, 2006, 26, 983-990,

Thomas Thorsell, *Edge loss minimization in vacuum insulation panels Research in Building Physics and Building Engineering*, Proceedings of the third international building physics conference, Concordia University, Canada, 2006, 251-256,

Abd Alla, E.M., Moriyoshi A., Partl, M.N., Takahashi K., Kondo, T and Tomoto T., *A New Wheel Tracking Test to Analyze Movements of Aggregates in Multi-Layered Asphalt Specimens*, Journal of the Japan. Petroleum Institute, 2006, 45, 9, 274-279,

Johan Silfwerbrand, *Impregnation - An Efficient Method of Active Bridge Maintenance*, International Journal on Restoration of Buildings and Monuments, 2006, 12, 1, 3-12,

Bengt Ljungqvist and Berit Reinmüller, *Predicted Contamination Levels in Cleanrooms, when Cleanroom-Dressed People are the Contamination Source*, Pharmaceutical Technology, Aseptic Processing, 2006,

Torbjörn Stenbeck, *Effects of Outsourcing and Performance-Based Contracting on Innovations*, Transportation Research Record, 2006, 1348, 3-8,

Anders Johansson, Mårten Janz, Johan Silfwerbrand and Jan Trägårdh, *Moisture Transport in Impregnated Concrete - Moisture Diffusion Coefficient, Modelling, Measurements and Verification*, International Journal on Restoration of Buildings and Monuments, 2006, 12, 1, 13-24,

Bengt Ljungqvist, Berit Reinmüller, B. Löfgren and A. Dewhurst, *Current Practice in the Operation and Validation of Aseptic Blow-Fill-Seal Processes*, PDA Journal of Pharmaceutical Science and Technology, 2006, 60, 4, 254 - 258,

Charles Lucian, Staffan Hintze and Håkan Stille, *Damage to Buildings on Expansive Soils in Kibaha, Tanzania.*, Journ. of Building and Land Development., 2006,13, 2, 39-47,

2005

Bing Tang and Ulf Isacson, *Determination of aromatic hydrocarbons in asphalt release agents using headspace solid-phase microextraction and gas chromatography-mass spectrometry*, Journal of Chromatography A, 2005,1069, 235-244,

Raid Karoumi, Johan Wiberg and Axel Liljencrantz, *Monitoring traffic loads and dynamic effects using an instrumented railway bridge*, Engineering Structures, 2005,12, 27, 1813-1819,

Hosseini, Hamid Reza Amiri, A. K Darban and F.Fakhri, *Effect of Geosynthetic on Fatigue Life of Asphalt*, Persian Transportation Research Journal, 2005,2, 2, 137 -144,

Esra Bayoglu Flener, Raid Karoumi and Håkan Sundquist, *Field testing of a long-span steel culvert during backfilling and in service*, Structure and Infrastructure Engineering., 2005,ISBN 1573-2479,1, 3, 181-188, June,

Anders Ansell, *The dynamic element method for analysis of frame and cable type structures*, Engineering Structures, 2005,27, 13, November,

P. Offrell, L. Sjögren and R. Magnusson, *Repeatability in Crack Data Collection on Flexible Pavements - A Comparison between Surveys using Video Cameras, Laser Cameras and a Simplified Manual Survey*, ASCE J of Transportation Engineering, 2005,131, 7, July,

Myrefelt S., *Functional Availability of Climate and Ventilation Systems*, International Journal of Ventilation., 2005,4, 2, 133-142, September,

Seyed Kazem Alavi Panah and Amir Houshang Ehsani, *Change Detection and Desertification Based on Geographic Information Systems and Multi-spectral Satellite Data (Case Study : Damghan Playa)*, Iranian journal of Geographical Research, 2005,51, 37, 51-64,

Stéphane Hameury, *Moisture Buffering Capacity of Heavy Timber Structures Directly Exposed to an Indoor Climate: A Numerical Study*, Building and Environment., 2005,40, 1400-1412,

Bengt Ljungqvist and Berit Reinmüller, *Aseptic Production, Gowning Systems, and Airborne Contaminants*, Pharmaceutical Technology Supplement Aseptic Processing 2005, 2005,

Anders Ansell, *Laboratory testing of a new type of energy absorbing rock bolt*, Tunnelling and Underground Space Technology, 2005,20, 4, 291-300, July,

Anders Ansell, *Recommendations for shotcrete on rock subjected to blasting vibrations, based on finite element dynamic analysis*, Magazine of Concrete Research, 2005,57, 3, 123-133, April,

Håkan Sundquist, *Punching Research at the Royal Institute of Technology (KTH) in Stockholm*, American Concrete Institute, Special Publication SP-232, Editor Maria Anna Polak., 2005,229-255,

Isaksson P., *Commissioning tools for improved energy performance.*, Results of IEA ECBCS Annex 40, 2005,

Håkan Stille and Therese Isaksson, *Model for estimation of time and cost for tunnel projects based on risk evaluation*, Int. Journal for Rock Mechanics and Rock Engineering., 2005,38, 5,

Umaru Bagampadde, Ulf Isacson and B. M. Kiggundu, *Influence of aggregate chemical and mineralogical composition on moisture sensitivity in bituminous mixtures*, Pavement Engineering, 2005,6, 4, 229 - 239,

Ylva Edwards and Ulf Isacson, *STATE OF THE ART - Wax in bitumen Part 2 - Characterization and effects*, Road Materials and Pavement Design, 2005,6, 4,

Ylva Edwards, Ulf Isacson and Y. Tasdemir, *Influence of commercial waxes on bitumen aging properties*, Energy & Fuels, 2005,19, 6,

Drakos, C.A., Roque, R., Birgisson, B., Novak and M., *Identification of a Physical Model to Evaluate Rutting Performance of Asphalt Mixtures*, Journal of ASTM International, American Society for Testing and Materials, 2005,2, 3, 21, March, Online Paper ID: JAI 12318,

Andersson J., Carrié R., Wouters P., Malmström T-G. and Delmotte C, *European Projects on Ductwork Quality*, ASHRAE Transactions, 2005,111, 1,

Peter Billberg, Johan Silfwerbrand and Tomas Österberg, *Form Pressure Generated by Self-Consolidating*

Concrete, Concrete International,, 2005,27, 10, 35-42, October,

Stefan Larsson, Marcus Dahlström and Bengt Nilsson, *A complementary field study on the uniformity of lime-cement columns for deep mixing*, Ground Improvement, 2005,9, 2, 67-77,

Stefan Larsson, Marcus Dahlström and Bengt Nilsson, *Uniformity of lime-cement columns for deep mixing: A field study*, Ground Improvement, 2005,9, 1, 1-15,

Stefan Larsson, Håkan Stille and Lars Olsson, *On horizontal variability in lime-cement columns in deep mixing*, Géotechnique, 2005,55, 1, 33-44, Special Issues on Risk Variability in Geotechnical Engineering,.

Gunnar Gustafson and Håkan Stille, *Stop criteria for cement grouting*, Felsbau, 2005,23, 3,

Ylva Edwards and Ulf Isacsson, *STATE OF THE ART - Wax in bitumen Part 1 - Classifications and general aspects*, Road Materials and Pavement Design, 2005,6, 3,

Weber T, Johannesson G, Koschenz M and et al., *Validation of a FEM-program (frequency-domain) and a simplified RC-model (time-domain) for thermally activated building component systems (TABS) using measurement data*, ENERGY AND BUILDINGS, 2005,Vol. 37, Issue: 7, 707--724,

Birgisson, B., Sholar, G., Roque and R., *Evaluation of Predicted Dynamic Modulus for Florida Mixtures*, Journal of the Transportation Research Board, TRR 1929, Washington, D.C., 2005,200-207,

T. Weber and G. Johannesson, *An optimized RC-network for thermally activated building components*, Building and Environment, 2005,Vol. 40, Issue: 1, 1--14, January,

Kim, J., Roque, R., Birgisson and B., *Obtaining Creep Compliance Parameters Accurately From Static or Cyclic Creep Tests*, Journal of ASTM International, American Society of Testing and Materials, 2005,2, 21, June, Performance Tests for Hot Mix Asphalt (HMA) Including Fundamental and Empirical Procedures,

Birgisson, B. , Roque and R., *Evaluation of Gradation Effects on Dynamic Modulus*, Journal of the Transportation Research Board, TRR 1929, Washington, D.C., 2005,193-199,

Castelblanco, A., Masad, E., Birgisson and B., *Moisture Damage as a Function of Air Void Size Distribution and Surface Energy*, Journal of Testing and Evaluation, American Society of Testing and Materials, 2005,34, 1, 9, December, Online Paper ID: JTE13112,

Birgisson, B., Montepara, M., Napier, J., Romeo, E., Roncella, R., Tebaldi and G., *Micromechanical Analyses for Measurement and Prediction of Hot-Mix Asphalt Fracture Energy*, Journal of the Transportation Research Board, TRR 1970, Washington, D.C., 2005,186-195,

Bertil Storåkers and Denis Elaguine (Jelagin), *Hertz contact at finite friction and arbitrary profiles*, Journal of the Mechanics and Physics of Solids, 2005,53, 1422-1447,

Stefan Larsson, Håkan Stille and Lars Olsson, *On horizontal variability in lime-cement columns in deep mixing*, Géotechnique, 2005,Vol. 55, No. 1, 33--44,

2004

Dietrich Schmidt and Gudni Jóhannesson, *Optimized RC Networks Incorporated Within Macro Elements for Modeling Thermally Activated Building Constructions*, Submitted to the NoRDIC Journal of Building Physics, 2004,

B. Ljungqvist and B. Reinmüller, *The LR Method in Critical Areas. Airflow Patterns and the Design of Aseptic Interventions*, Pharmaceutical Technology (US), 2004,28, 7, 46 - 54,

M. Eriksson, M. Friedrich and C. Vorschulze, *Variations in the rheology and penetrability of cement-based grouts - an experimental study*, Cement and Concrete Research , 2004,34, 1111-1119,

Stéphane Hameury and Tor Lundström, *Contribution of indoor exposed massive wood to a good indoor climate: in-situ measurement campaign.*, Energy and Building, 2004,36, 3, 281-292,

Birgisson, B., Soranakom, C., Napier, J.A.L., Roque and R., *The Simulation of the Cracking Behavior of Asphalt Mixtures Using Random Assemblies of Displacement Discontinuity Boundary Elements*, ASCE Geotechnical Special Publication GSP 123: Recent Advances in Materials Characterization and Modeling of Pavement Systems, 2004,46-64, American Society of Civil Engineers, Washington, D.C.,

B. Ljungqvist and B. Reinmüller, *Cleanroom dressed people as a contamination source: some calculations*, European Journal of Parenteral & Pharmaceutical Sciences, 2004,9, 3, 83 - 87,

- Blomberg P., Mundt E. and Malmström T-G., *Calibration and Testing of Thermal Simulation Models of Air Heaters.*, ASHRAE Transactions, 2004,110, 2,
- Mundt E., *Lüftungseffektivität.*, HLH, Heizung Lüftung/Klima Haustechnik, 2004,11,
- Umaru Bagampadde, Ulf Isacsson and Badru M. Kiggundu, *Classical and Contemporary Aspects of Stripping in Bituminous Mixes - State of the Art*, Road Materials and Pavement Design, 2004,Vol. 5, 1/2004, 7--43,
- Lavrykov, S.A., Ramarao, B.V., Lyne and O.L., *The planar transient hygroexpansion of copy paper: Experiments and analysis*, Nordic Pulp and Paper Research Journal, 2004,19, 2, 183-190, January,
- T.Weber, G. Jóhannesson and M. Koschens, *Frequency Domain Solution of Dynamic Heat Conduction using Triangular FEM Formulation for the Modeling of Thermally Activated Building Components*, Submitted to Building and Environment, 2004,
- Raid Karoumi and Ian Markey, *Instrumentation for Monitoring the New Svinesund Bridge*, Nordic Road & Transport Research., 2004,1,
- Larissa Strömberg, *Integrated Life Cycle Design of Coatings on Exterior Wood,Part B: LCA*, Surface Coatings International, 2004,September,
- Helena Moosberg-Bustnes, Björn Lagerblad and Erik Forsberg, *The Function of Fillers in Concrete*, Materials & Structures., 2004,37, 266, 74-81,
- Martin Erlandsson and Per Levin, *Environmental assessment of rebuilding and possible performance improvements effect on a national scale*, Journal of Building and Environment., 2004,39, 12, 1453-1465,
- R. Lundström and U. Isacsson, *Linear Viscoelastic and Fatigue Characteristics of Styrene-Butadiene-Styrene Modified Asphalt Mixtures*, ASCE, Journal of Materials in Civil Engineering, 2004,16, 6, 629,
- R. Lundström, J. Ekblad and U. Isacsson, *Influence of Hysteretic Heating on Asphalt Fatigue Characterisation*, ASTM Journal of Testing and Evaluation, 2004,32, 6, 484,
- Semere Solomon and Friedrich Quiel, *Quality of Remote Sensing Data Affecting Thematic Mapping for GIS based Groundwater Assessment in Eritrea*, Photogrammetrie Fernerkundung Geoinformation, 2004,5, 433-443,
- R. Lundström and U. Isacsson, *An Investigation of the Applicability of Schapery's Work Potential Model for Characterization of Asphalt Fatigue Behavior*, AAPT Proceedings, 2004,
- Anders Ansell, *In situ testing of young shotcrete subjected to vibrations from blasting*, Tunnelling and Underground Space Technology, 2004,19, 6, 587-596, November ,
- Weber and G. Jóhannesson, *An Optimized RC Network for Thermally Activated Building Components*, Building and Environment., 2004,40, 1, 1-14, January,
- Roque, R., Birgisson, B., Drakos, C., Dietrich and B., *Development and Field Evaluation of Energy-Based Criteria for Top-down Cracking Performance of Hot Mix Asphalt*, Journal of the Association of Asphalt Paving Technologists, 2004,73, 229-260,
- Malin Löfsjögård and Robert Karlsson, *Performance Assessment of Concrete Roads in Sweden*, Road Materials and Pavement Design, 2004,5, 2, 193-213,
- Jean-Marc Battini and Costin Pacoste, *On the choice of the local element frame for corotational triangular shell elements*, Communications in Numerical Methods in Engineering, 2004,20, 819-825,
- U. Bagampadde, U. Isacsson and B.M. Kiggundu, *Classical and Contemporary Aspects of Stripping in Bituminous Mixes - State of the Art*, Road Materials and Pavement Design, 2004,5, 1, 7,
- Birgisson, B., Roque, R., Page and G.C., *A Performance-Based Fracture Criterion for the Evaluation of Moisture Susceptibility in Hot Mix Asphalt*, Journal of the Transportation Research Board, TRR 1891, Washington, D.C., 2004,55-61,
- Birgisson, B., Roque, R., Page and G.C., *The Need for Inducing Shear Instability to Obtain Relevant Parameters for HMA Rut-Resistance*, Journal of the Association of Asphalt Paving Technologists, 2004,73, 23-52,
- Novak, M., Birgisson, B., Roque, R., Choubane and B., *Effects Of One-Way And Two-Way Directional Heavy Vehicle Simulator Loading On Rutting In Hot Mix Asphalt Pavements*, Journal of the Transportation Research Board, TRR 1896, Washington, D.C., 2004,208-214,

Larissa Strömberg and Jan Ekstedt, *Integrated Life Cycle Design of Coatings on Exterior Wood, Part A: SLP*, Surface Coatings International,, 2004,87, June,

McVay, M., Birgisson, B., Lee and S., *Influence of Sample Size, Insitu Testing and Pile/Shaft Model Variability on LRFD Resistance Factors*, ASCE Geotechnical Special Publication GSP 126: Geotechnical Engineering for Transportation Projects, 2004,2, 677-686, Editors: M.K. Yegian, and E. Kavazanjian,

Sven Sahlin, *Plea for an EN Standard Test of Floor/Wall Joints*, Masonry International,, 2004,17, 1, 1-6,

Sangpetgnam, B., Birgisson, B., Roque and R., *A Multi-Layer Boundary Element Method for the Evaluation of Top-Down Cracking in Hot Mix Asphalt Pavements*, Journal of the Transportation Research Board, TRR 1896, Washington, D.C., 2004,129-137,

Masad, E., Birgisson, B., Al-Omari, A., Cooley and A., *Analysis of Permeability and Fluid Flow in Asphalt Mixes*, Journal of Materials in Civil Engineering, American Society of Civil Engineers, 2004,16, 5, 487-496,

Myrefelt S, *The reliability and availability of heating, ventilation and air-conditioning systems.*, Energy and Buildings,, 2004,36, 10, 979-1062,

H. Di Benedetto, C. de La Roche and R. Lundström, *RILEM TC 182-PEB: Fatigue of bituminous mixtures*, Materials and Structures,, 2004,202-216,

P. Offrell and R. Magnusson, *Photographic survey of crack propagation on field roads in Sweden*, The International Journal of Pavement Engineering,, 2004,5, 2,

Magdalena Sterley, H. Blümer and M.E.P. Wälinder, *Edge and face gluing of green timber using a one-component polyurethane adhesive*, Holz als Roh- und Werkstoff., 2004,62, 6, 479-482,

Birgisson, B., Soranakom, C., Napier, J.A.L., Roque and R., *Modeling of Microstructure and Fracture Behavior in Asphalt Mixtures Using a Boundary Element Approach*, Journal of Materials in Civil Engineering, American Society of Civil Engineers, 2004,16, 2, 116-121,

2003

R. Karlsson and U. Isacsson, *Bitumen Structural Stability Characterisation using Turbidimetric Titration*, ACS Energy & Fuels., 2003,17, 1407-1415,

R. Lundström and U. Isacsson, *Asphalt Fatigue Modelling using Viscoelastic Continuum Damage Theory*, International Journal of Road Materials and Pavement Design,, 2003,4, 1, 51-75,

R. Lundström and U. Isacsson, *Influence of Asphalt Mixture Stiffness on Fatigue Failure*, ASCE, Journal of Materials in Civil Engineering, 2003,

Friedrich Quiel, Mieczyslaw Sobik and Dariusz Rosinsk, *Spatial Analysis of Air Temperature Trends in Europe with the Use of GIS*, Studia Geograficzne, 2003,75, 541-550,

Morgan Axelsson and Stefan Larsson, *Column penetration tests for lime-cement columns in deep mixing - experiences in Sweden*, 2003,1, 681-694,

R. Karlsson and U. Isacsson, *Laboratory studies of diffusion in bitumen using markers*, Kluwer J of Materials Science., 2003,38, 2835-2844,

X. Lu, U. Isacsson and J. Ekblad, *Influence of polymer modification on low temperature behaviour of bituminous binders and mixtures*, Materials and Structures,, 2003,36, 652-656, December,

B. Ljungqvist, B. Reinmüller and O. Söderström, *Cleanroom dressed operator in unidirectional airflow; a mathematical model of contamination risks.*, European Journal of Parenteral & Pharmaceutical Sciences,, 2003,8, 1, 11-14,

Jean-Marc Battini, Costin Pacoste and Anders Eriksson, *Improved minimal augmentation procedure for the direct computation of critical points*, Computer Methods in Applied Mechanics and Engineering, 2003,192, 16-18, 2169-2185, April,

Håkan Stille and Arild Palmström, *Classification as a tool in rock engineering*, Tunnelling and Underground Space Technology, 2003,18, 4, 331-345,

R. Karlsson and U. Isacsson, *Application of FTIR-ATR to Characterisation of Bitumen Rejuvenator Diffusion*, ASCE Journal of Materials in Civil Engineering,, 2003,15, 2, 157-165,

R. Karlsson and U. Isacsson, *Investigations on bitumen rejuvenator diffusion and structural stability*, AAPT

Proceedings 2003, 2003,

A. Bergström, *More Effective Winter Maintenance Method for Cycleways*, Transportation Research Record: Journal of the Transportation Research Board., 2003,1824,

Y. Edwards and P. Redelius, *Rheological Effects of waxes in bitumen*, Energy and fuels, 2003,17, 3, 511,

Anders Ansell and Johan Silfwerbrand, *The vibration resistance of young and early age concrete*, Structural Concrete, 2003,4, 3, 125-134, September,

Birgisson, B., Roque, R., Page and G. C., *Ultrasonic Pulse Wave Velocity Test as a Tool for Monitoring Changes in HMA Mixture Integrity due to Exposure to Moisture*, Journal of the Transportation Research Board, TRR 1832, Washington, D.C., 2003,173-181,

Sangpetnam, B., Birgisson, B., Roque and R., *Development of an Efficient Hot Mix Asphalt Fracture Mechanics-Based Crack Growth Simulator*, Journal of the Transportation Research Board, TRR 1832, Washington, D.C., 2003,105-112,

McVay, M., Ellis, R., Birgisson, B., Consolazio, G., Putcha, S., Lee and S.M., *Use of LRFD, Cost and Risk: Designing a Drilled-Shaft Load Test Program in Florida Limestone*, Journal of the Transportation Research Board, TRR 1849, Washington, D.C., 2003,98-108,

Kim, B., Roque, R., Birgisson and B., *Laboratory Evaluation of the Effect of SBS Modifier on Cracking Resistance of Asphalt Mixtures*, Journal of the Transportation Research Board, TRR 1829, Washington, D.C., 2003,8-15,

R. Lundström, U. Isacsson and J. Ekblad, *Investigations of Stiffness and Fatigue Properties of Asphalt Mixtures*, Journal of Material Science, 2003,38, 4941-4949,

Folke Björk, Carl-Axel Eriksson, Sigbritt Karlsson and Farideh Khabbaz, *Degradation of Components in Flooring Systems in Humid and Alkaline Environments*, Construction and Building Materials, 2003,17, 213-221,

Birgisson, B., Soranakom, C., Napier, J.A.L., Roque and R., *Simulation of Fracture Initiation in Hot Mix Asphalt Mixtures*, Journal of the Transportation Research Board, Washington, TRR 1849, Washington, D.C., 2003,183-192,

Birgisson, B., Ruth and B.E., *Improved Performance by Consideration of Terrain Conditions: Soils, Drainage, and Climate*, Journal of the Transportation Research Board, TRR 1819, Washington, D.C., 2003,369-377,

B. Ljungqvist and B. Reinmüller, *People as a contamination source: cleanroom clothing systems after 1, 25 and 50 washing/sterilizing cycles*, European Journal of Parenteral & Pharmaceutical Sciences, 2003,8, 3, 75-80,

B. Ljungqvist and B. Reinmüller, *Modern Cleanroom Clothing Systems: People as a Contamination Source*, PDA Journal of Pharmaceutical Science and Technology, 2003,57, 2, 114-125,

Novak, M., Birgisson, B., Roque and R., *Three-Dimensional Finite Element Analysis of Measured Tire Contact Stresses and Their Effects on Instability Rutting of Asphalt Mixture Pavements*, Journal of the Transportation Research Board, TRR 1853, Washington, D.C., 2003,150-156,

Novak, M., Birgisson, B., Roque and R., *Near Surface Stress States in Flexible Pavements Using Measured Radial Tire Contact Stresses and ADINA*, International Journal of Computers and Structures, 2003,81, 859-870,

Lars Lidström and Bo Westerberg, *Fine Ground Cement in Concrete - Properties and Prospects*, ACI Materials Journal., 2003,100, 1, 398-407, January-February,

Fredrik Gränne, Folke Björk and Knut Noreng, *Wind-load Resistance tests of Heat-Welded Joints between Roofing Felts and Sheet Metal Flashings*, Building and Construction Materials, 2003,17, 319-324,

B. Marteinson, *Durability and the factor method of ISO 15686-1*, Building Research & Information, 2003,31, 6, 416-426,

R. Lundström and U. Isacsson, *Characterization of Asphalt Concrete Mixtures using Monotonic and Cyclic Tests*, The International Journal of Pavement Engineering., 2003,4, 3, 143-154,

Wang W-X and Bergholm F, *Froth delineation based on image classification*, Minerals Engineering, 2003,16, 1183-1192,

B. Ljungqvist, B. Reinmüller and O. Söderström, *Cleanroom dressed operator in unidirectional airflow; a*

mathematical model of contamination risks., European Journal of Parenteral & Pharmaceutical Sciences., 2003,8, 1, 11-14,

Birgisson, B., Roque, R., Page and G., *Evaluation of Water Damage Using Hot Mix Asphalt Fracture Mechanics*, Journal of the Association of Asphalt Paving Technologists, 2003,72, 424-462, February,

Alina Badanoiu and Jonas Holmgren, *Cementitious composites reinforced with continuous carbon fibres for strengthening of concrete structures*, Cement & Concrete Composites, 2003,25, 387-394,

2002

P. Offrell and R. Magnusson, *Computerised Tomography as a tool for crack analysis in asphalt layers*, International Journal of Road Materials and Pavement Design., 2002,3, 1, 49-72,

A. Bergström, H. Åström and R. Magnusson, *Friction Measurements on Cycleways Using a Portable Friction Tester*, ASCE, Journal of Cold Regions Engineering, 2002,17, 1, 37-57,

A. Bergström and R. Magnusson, *Potential of transferring car trips to bicycle during winter*, Transportation Research Part A, 2002,37, 649-666,

R. Karlsson and U. Isacsson, *Bitumen Rejuvenator Diffusion as Influenced by Ageing*, Int'l J of Road Materials and Pavement Design., 2002,3, 2,

Carling P., *Comparison of three fault detection methods based on field data of an air-handling unit*, ASHRAE Transactions, 2002,108, 1,

Anders Eriksson and Costin Pacoste, *Element formulation and numerical techniques for stability problems in shells*, Computer Methods in Applied Mechanics and Engineering, 2002,191, 35, 3775-3810, July ,

Jean-Marc Battini and Costin Pacoste, *Plastic instability of beam structures using co-rotational elements*, Computer Methods in Applied Mechanics and Engineering, 2002,191, 51-52, 5811-5831, December,

Folke Björk and Carl Axel Eriksson, *Measurement of Alkalinity in Concrete by a simple Procedure, to Investigate Transport of Alkaline Material from the Concrete Slab to a Self-levelling Screed*, Construction and Building materials, 2002,16, 535-542,

Tim Weber and Gudni Johannesson, *The Utilization of Free Heat in Buildings, A Statistical Approach*, LEAS, 2002,

Roque, R., Myers, L.A., Birgisson and B., *Use of Two-Dimensional Finite Element Analysis to Represent Bending Response of Asphalt Pavement Structures*, International Journal of Pavement Engineering, 2002,2, 201-214,

Mehta, Y., Birgisson, B., Choubane and B., *Rubblization Over Soft Soils - The Florida Experience*, International Journal of Road Materials and Pavement Design - A Scientific Note, 2002,3, 1995-209,

McVay, M.C., Birgisson, B., Nguyen, T., Kuo and C.L., *Uncertainty in LRFD phi, Factors for Driven Prestressed Concrete Piles*, Journal of the Transportation Research Board, TRR 1808, Washington, D.C., 2002, TRR 1808, 99-107,

Birgisson, B., Ovik, J., Newcomb and D.E., *Predictions of Seasonal Variations in Flexible Pavements at the MN/ROAD Site*, Journal of the Transportation Research Board, TRR 1730, Washington, D.C., 2002, TRR 1730, 81-90,

Birgisson, B., Sangpetngam, B., Roque and R., *Prediction of the Viscoelastic Response and Crack Growth in Asphalt Mixtures Using the Boundary Element Method*, Journal of the Transportation Research Board, TRR 1789, 2002, TRR 1789, 129-135, Washington, D.C.,

Jean-Marc Battini and Costin Pacoste, *Co-rotational beam elements with warping effects in instability problems*, Computer Methods in Applied Mechanics and Engineering, 2002,191, 17-18, 1755-1789, February ,

Malmström T-G., *A Review of International Literature Related to Ductwork for Ventilation Systems*, AIVC., 2002,56,

Mikael Hallgren and M. Bjerke, *Non-linear Finite Element Analyses of Punching Shear failure of Column Footings*, Cement & Concrete Composites, 2002,24, 6, 491-496,

Zou J, *An Experimental Investigation of Turbulent Wall Jets*, ASHRAE Transactions, 2002,108, 1,

B. Ljungqvist and B. Reinmüller, *Risk assessment with the LR-Method*, European Journal of Parenteral

Sciences., 2002,7, 4, 105-109,

X. Lu and U. Isacsson, *Effect of Ageing on Bitumen Chemistry and Rheology*, Construction and Building Materials., 2002,16, 15-22,

E. Simonsen, V. Janoo and U. Isacsson, *Resilient Properties of Unbound Road Materials During Seasonal Frost Conditions*, Journal of Cold Regions Engineering., 2002,16, 28-50,

Larissa Strömberg and Jacob Paulsen, *LCA Application to Russian Conditions*, Int. Journal Life Cycle Assessment, 2002,7, 6,

Kuo, C.L., McVay, M.C., Birgisson and B., *Calibration of Resistance Factors for LRFD Drilled Shaft Design*, Journal of the Transportation Research Board, TRR 1808, Washington, D.C., 2002,TRR 1808, 108-111,

Olander L. and NiemeläR., *Ventilation for controlling occupational hygiene hazards*, Croner Occupational Hygiene Magazine., 2002,33, 17-22, March-April,

Birgisson, B., Ruth and B.E., *Development of Tentative Guidelines for the Selection of Aggregate Gradations in Hot-Mix Asphalt*, ASTM STP 1412, American Society of Testing and Materials, 2002,Aggregate Contribution to Hot Mix Asphalt (HMA) Performance, 110-127,

2001

Stefan Larsson, *Binder distribution in lime-cement columns*, Ground Improvement, 2001,5, 3, 111-122,

F. Lekarp and U. Isacsson, *The Effects of Grading Scale on Repeated Load Triaxial Test Results*, International Journal of Pavement Engineering., 2001,2, 2, 85-101,

Martin Brantberger, Håkan Stille and Magnus Eriksson, *Controlling grout spreading in tunnel grouting — analyses and developments of the GIN-method*, Tunnelling and Underground Space Technology, 2001,15, 4, 343-352,

Mundt and E., *Non-buoyant pollutant sources and particles in displacement ventilation.*, Building and Environment., 2001,36, 7,

Zhang, Z., Roque, R., Birgisson, B., Sangpetngam and B., *Identification and Verification of a Suitable Crack Growth Law for Asphalt Mixtures*, Journal of the Association of Asphalt Paving Technologists, 2001,70, 206-241,

Zhang, Z., Roque, R., Birgisson and B., *Evaluation of Laboratory Measured Crack Growth Rate for Asphalt Mixtures*, Journal of the Transportation Research Board, TRR 1767, Washington, D.C., 2001,TRR 1767, 67-75,

Nukunya, B., Roque, R., Tia, M., Birgisson and B., *Evaluation of VMA and Other Volumetric Properties as Criteria for the Design and Acceptance of Superpave Mixtures*, Journal of the Association of Asphalt Paving Technologists, 2001,70, 38-69,

Drakos, C.A., Roque, R., Birgisson and B., *Effect of Measured Tire Contact Stresses on Near-Surface Rutting*, Journal of the Transportation Research Board, TRR 1764, Washington, D.C., 2001,TRR 1764, 59-69,

Dietrich Schmidt and Gudni Jóhannesson, *Approach for the Modelling of Thermally Activated Building Constructions with an Optimized RC Network*, Nordic Journal of Building Physics, 2001,

X. Lu and U. Isacsson, *Modification of Road Bitumens with Thermoplastic Polymers*, Polymer Testing., 2001,20, 77-86,

X. Lu and U. Isacsson, *Effect of Binder Rheology on the Low-Temperature Cracking of Asphalt Mixtures*, The International Journal of Road Materials and Pavement Design., 2001,2, 1, 29-47,

Dietrich Schmidt and Gudni Jóhannesson, *Model for the Thermal Performance of Double Air Gap Wall Constructions*, Nordic Journal of Building Physics, 2001,

Dietrich Schmidt and Gudni Jóhannesson, *Approach for the Modelling of Thermally Activated Building Constructions with an Optimized RC Network*, Nordic Journal of Building Physics, 2001,

Myers, L.A., Roque, R., Birgisson and B., *Propagation Mechanisms for Surface-Initiated Longitudinal Wheel Path Cracks*, Journal of the Transportation Research Board, TRR 1778, Washington, D.C., 2001,TRR 1778, 113-121,

2000

- F. Lekarp, U. Isacsson and A. Dawson, *State of the Art - II: Permanent Strain Response of Unbound Aggregates*, Journal of Transportation Engineering, ASCE., 2000,126, 1, 76-83,
- Ovik, J., Birgisson, B., Newcomb and D.E., *Characterizing Seasonal Variations in Flexible Pavement Material Properties*, Journal of the Transportation Research Board, TRR 1684, Washington, D.C., 2000,TRR 1684, 1-7,
- X. Lu and U. Isacsson, *Artificial Aging of Polymer Modified Bitumens*, Journal of Applied Polymer Science., 2000,76, 1811-1824,
- X. Lu and U. Isacsson, *Laboratory Study on the Low Temperature Physical Hardening of Conventional and Polymer Modified Bitumens*, Construction and Building Materials., 2000,14, 79-88,
- Roque, R., Myers, L.A., Birgisson and B., *Evaluation of Measured Tire Contact Stresses for the Prediction of Pavement Response and Performance*, Journal of the Transportation Research Board, TRR 1716, Washington, D.C., 2000,TRR 1716, 73-81,
- Lars Hall and Ander Bodare, *Analyses of the cross-hole method for determining shear wave velocities and damping ratios*, Soil Dynamics and Earthquake Engineering, 2000,20, 1-4, 167-175, October,
- Jörgen B. Eriksson and T-G Malmström, *Pressure drops in T-junctions - a comparison*, ASHRAE Transactions, 2000,
- Y. Edwards and J. Aurstad, *Y. Edwards and J. Aurstad*, The International Journal of Road Materials and Pavement Design., 2000,1, 4,
- Carl Erik Broms, *Elimination of Flat Plate Punching Failure Mode*, ACI Structural Journal, 2000,97, 1, 94-101,
- F. Lekarp, U. Isacsson and A. Dawson, *State of the Art - I: Resilient Response of Unbound Aggregates*, Journal of Transportation Engineering, ASCE., 2000,126, 1, 66-75,
- McVay, M.C., Birgisson, B., Zhang, L., Perez, A., Putcha and S., *Load and Resistance Factor Design (LRFD) for Driven Piles Using Dynamic Methods - A Florida Perspective*, ASTM Geotechnical Testing Journal, 2000,23, 1, 55-66,
- Folke Björk and Fredrik Gränne, *Products for covering of flat roofs - the Swedish practice in light of EOTA TB 97/24/9.3.1 PT3 Durability*, Materials and structures, 2000,33, 270,
- K. Kjellsen, Mikael Hallgren and O. Wallevik, *Fracture Mechanical Properties of High-Performance Concrete – Influence of Silika Fume*, Materials and Structures, 2000,33, 552-558,
- Birgisson, B., Roberson and R., *Drainage of Pavement Material: Design and Construction Issues*, Journal of the Transportation Research Board, TRR 1709, Washington, D.C., 2000,TRR 1709, 11-18,
- Fredrik Gränne and Folke Björk, *Strength of Joints between Roofing Felt and Steel - Short and long-term Tests*, Building and Construction Materials, 2000,14, 375-383,
- Magnus Eriksson, Håkan Stille and Johan Andersson, *Numerical calculations for prediction of grout spread with account for filtration and varying aperture*, Tunneling and underground space technology, 2000,15, 4, 353-364,
- Ovik, J., Birgisson, B., Newcomb and D.E., *Seasonal Variations in Backcalculated Pavement Layer Moduli at MN/ROAD*, Nondestructive Testing of Pavements and Backcalculation of Moduli, ASTM STP 1375, 2000,ASTM STP 1375, 129-143, American Society of Testing and Materials, West Conshocken, PA.,
- 1999**
- U. Isacsson and X. Lu, *Laboratory Investigation of Polymer Modified Bitumens*, Journal of the Association of Asphalt Paving Technologists (AAPT),, 1999,68, 35-63,
- X. Lu and U. Isacsson, *Chemical and Rheological Characteristics of Styrene-Butadiene-Styrene Polymer Modified Bitumens*, Transportation Research Record, Journal of the Transportation Research Board., 1999,1661, 83-92,
- U. Isacsson and X. Lu, *Characterization of Bitumens Modified with SEBS, EVA and EBA Polymers*, Journal of Materials Science., 1999,34, 3737-3745,
- X. Lu., U. Isacsson and J. Ekblad, *Rheological Properties of SEBS, EVA and EBA Polymer Modified Bitumens*, Materials and Structures., 1999,32, 131-139,

- X. Lu., U. Isacson and J. Ekblad, *Phase Separation of SBS Polymer Modified Bitumens*, Journal of Materials in Civil Engineering, ASCE., 1999,11, 1, 51-57,
- Eriksson A. and Pacoste C, *Symbolic Software Tools in the Development of Efficient Finite Elements*, Computers and Structures., 1999,72, 579-593,
- E. Simonsen and U. Isacson, *Thaw Weakening of Pavement Structures in Cold Regions, state-of-the-art*, Cold Regions Science and Technology., 1999,29, 135-151,
- Anders Eriksson, Costin Pacoste and Adam Zdunek, *Numerical analysis of complex instability behaviour using incremental-iterative strategies*, Computer Methods in Applied Mechanics and Engineering, 1999,179, 3-4, 265-305, September,
- Raid Karoumi, *Some Modeling Aspects in the Nonlinear Finite Element Analysis of Cable Supported Bridges*, Computers and Structures., 1999,71, 4, 397-412,
- Anders Eriksson and Costin Pacoste, *Symbolic software tools in the development of finite elements*, Computers & Structures, 1999,72, 4-5, 579-593, August,
- G. Hed, *Service life planning carried out in a building project*, The International Journal of Low Energy and Sustainable Buildings, 1999,
- Norén A., Akander J., Isfält E. and Ove Söderström, *The effect of thermal inertia on energy requirements in a swedish building - Results obtained with three calculation models.*, International Journal of Low Energy and Sustainable Buildings, 1999,
- G. Kaklauskas and Mikael Hallgren, *Curvature Analysis of Experimental High Strength Concrete Beams*, Statyba Civil Engineering, 1999,V, 6,
- K. Kjellsen, O. Wallevik and Mikael Hallgren, *On the Compressive Strength Development of High-Performance Concrete and Paste – Effect of Silica Fume*, Materials and Structures, 1999,32, 63-69,
- 1998**
- U. Isacson and H. Zeng, *Cracking of Asphalt at Low Temperature as Related to Bitumen Rheology*, Journal of Materials Science., 1998,33, 2165-2170,
- L. S. Johansson and U. Isacson, *Effect of Filler on Low Temperature Physical Hardening of Bitumen*, Construction and Building Materials., 1998,12, 463-470,
- X. Lu., U. Isacson and J. Ekblad, *Low-Temperature Properties of Styrene-Butadiene-Styrene Polymer Modified Bitumens*, Construction and Building Materials., 1998,12, 405-414,
- U. Isacson and H. Zeng, *Low Temperature Cracking of Polymer-Modified Asphalt*, Materials and Structures., 1998,31, 58-63,
- Ove Söderström, *On analysis of cup method measurements on hygroscopic materials with surface coatings.*, Nordic Journal of Building Physics, 1998, Trätek, Rapport I 9702008,1997.,
- F. Lekarp and A. Dawson, *Modelling Permanent Deformation Behaviour of Unbound Granular Materials*, Construction and Building Materials., 1998,12, 1, 39709,
- Carlsson P., Esping B. and Ove Söderström, *Optimisation, a tool with which to create an effective drying schedule.*, Holzforschung, 1998,52, 530-540,
- Jóhannesson G and Weber T, *Energisparendes Bauen in Schweden*, Bundesbaublatt, 1998,1, January,
- Torsten Höglund, *Shear buckling Resistance of Steel and Aluminium Plate girders*, Stahlbau 67 (1998), Sonderheft Aluminium, 1998,67,
- Bergholm F and Francisco A., *On the importance of being asymmetric in stereopsis - or the use of skewed parallel cameras*, Int. Journal of Computer Vision, 1998,29, 3, 181-202,
- Costin Pacoste, *Co-rotational flat facet triangular elements for shell instability analyses*, Computer Methods in Applied Mechanics and Engineering, 1998,156, 1-4, 75-110, April,
- Mikael Hallgren, Sven Kinnunen and Birgitta Nylander, *Punching Shear Tests of Column Footings*, Nordic Concrete Research, 1998,21, 1-22,
- Ghassem Hassanzadeh and Håkan Sundquist, *Strengthening of bridge slabs on columns*, Nordic Concrete

Research, 1998,ISBN 82-91341-14-1,21,

X. Lu and U. Isacsson, *Chemical and Rheological Evaluation of Ageing Properties of SBS Polymer Modified Bitumens*, Fuel,, 1998,77, 961-972,

Zou Yue and T-G Malmström, *A simple method for low-speed hot-wire anemometer calibration*, Meas. Sci. Technol., 1998,9, 1506-1510,

1997

Bring, Axel, Malmström, Tor-Göran, Boman and Carl Axel, *Simulation and Measurement of Road Tunnel Ventilation* , Tunnelling and Underground Space Technology, 1997,12, 3, 417-424,

X. Lu and U. Isacsson, *Influence of Styrene-Butadiene-Styrene Polymer Modification on Bitumen Viscosity*, Fuel,, 1997,76, 1353-1359,

Ghassem Hassanzadeh and Håkan Sundquist, *Strengthening of bridge slabs on columns*, Nordic Concrete Research, 1997,ISBN 82-91341-14-1,21,

Malmström, Tor G, Kirkpatrick, Allan, Christensen, Brian, Knappmiller and Kevin D, *Centreline velocity decay measurements in low-velocity axisymmetric jets*, Journal of Fluid Mechanics, 1997,346, 363-377,

Zhang W. and Bergholm F, *Multiscale blur estimation and edge type classification for scene analysis*, Int. J. of Computer Vision, 1997,24, 3, 219-250, (authors in random order),

Rosenkilde Anders and Ove Söderström, *Surface phenomena during drying of MDF*, Holzforschung, 1997,51, 79-82,

X. Lu and U. Isacsson, *Rheological Characterization of Styrene-Butadiene-Styrene Copolymer Modified Bitumens*, Construction and Building Materials,, 1997,11, 1, 23-32,

X. Lu and U. Isacsson, *Compatibility and Storage Stability of Styrene-Butadiene-Styrene Copolymer Modified Bitumens*, Materials and Structures,, 1997,30, 618-626,

X. Lu and U. Isacsson, *Characterization of Styrene-Butadiene-Styrene Polymer Modified Bitumens - Comparison of Conventional Methods and Dynamic Mechanical Analysis*, ASTM Journal of Testing and Evaluation,, 1997,25, 4, 383-390,

E. Simonsen, V. Janoo and U. Isacsson, *Prediction of Temperature and Moisture Changes in Pavement Structures*, ASCE Journal of Cold Regions Engineering,, 1997,11, 4, 291-307,

E. Simonsen, V. Janoo and U. Isacsson, *Prediction of Pavement Response during Freezing and Thawing Using a Finite Element Approach*, ASCE Journal of Cold Regions Engineering,, 1997,11, 4, 308-324,

U. Isacsson and H. Zeng, *Relationships between Bitumen Chemistry and Low Temperature Behaviour of Asphalt*, Construction and Building Materials,, 1997,11, 2, 83-91,

Torsten Höglund, *Shear buckling Resistance of Steel and Aluminium Plate girders*, Thin-Walled Structures, 1997,29, 1-4, 13-30,

1996

Lyne, O.L., Fellers, C., Kolseth and P., *The effect of filler on hygroexpansivity*, Nordic Pulp and Paper Research Journal, vol. 11, no. 3, 1996,11, 3, 152-156,

Malmquist L. and Ove Söderström, *Sorption equilibrium in relation to the spatial distribution of molecules - Application to desorption of potato.*, Drying Technology, 1996,14, 10, 2293-2306 , TräteK, L-Rapport 9611083,1996.,

Ove Söderström, *Surface conditions and Fick*, Wood Science and Technology, 1996,30,

H. K. Zubeck, H. Zeng, T. S. Vinson and V. C. Jano, *Field Validation of Thermal Stress Restrained Specimen Test: Six Case Histories*, Transportation Research Record,, 1996,1545, 67-74,

L. S. Johansson, J. F. Branthaver and R. E. Robert, *The Influence of Metal Containing Compounds on Enhancement and Inhibition of Asphalt Oxidation*, Fuel Science & Technology Int, 1996,

F. Lekarp, I. Richardson and A. R. Dawson, *Influences on Permanent Deformation Behaviour of Unbound Granular Materials*, Transportation Research Record,, 1996,1547, 68-75,

R. N. Nilsson, I. Oost and P. C. Hopman, *Visco-Elastic Analysis of Full Scale Pavements: Validation of VEROAD*, Transportation Research Record,, 1996,1539, 81-87,

1995

L. S. Johansson, J. F. Branthaver and R. E. Robert, *A Study of Rheological Properties of Lime Treated Paving Asphalts Aged at 60 °C in a Pressure Aging Vessel*, Fuel Science & Technology Int, 1995,

U. Isacsson and X. Lu, *Testing and Appraisal of Polymer Modified Road Bitumens-State of the Art*, Materials and Structures,, 1995,28, 139-159,

Costin Pacoste and Anders Eriksson, *Element behavior in post-critical plane frame analysis*, Computer Methods in Applied Mechanics and Engineering, 1995,125, 1-4, 319-343, September,

Costin Pacoste and Anders Eriksson, *Element behavior in post-critical plane frame analysis*, Computer Methods in Applied Mechanics and Engineering, 1995,125, 1-4, 319-343, September,

1994

Lyne, O.L., Fellers, C., Kolseth and P., *Three dimensional hygroexpansivity of unfilled and filled laboratory made fine papers*, Appita, 1994,47, 5, 380-386, September,

1991

Mikael Hallgren and Sven Kinnunen, *Punching Shear Tests on Circular High Strength Concrete*, Nordic Concrete Research, 1991,10, 37-47,

Kai Ödeen, *Temperature Development in Externally Fire Exposed Rooms.*, Fire Safety Journal, 1991,17,

1990

Ljunggren S, *Line Mobilities of Infinite Plates. Reprinted from Journal of the Acoustical Society of America. vol 86, No 4, Oct 1989. Sthlm 1990*, Reprinted from Journal of the Acoustical Society of America., 1990,86, 4, 157, October,

Carl Erik Broms, *Punching of Flat Plates - A Question of Concrete properties in Biaxial Compression and Size Effect*, ACI Structural Journal, 1990,87, 3, 292-304,

Carl Erik Broms, *Shear Reinforcement for Deflection Ductility of Flat Plates*, ACI Structural Journal, 1990,87, 6, 696-705,